

CLAIMS

1) Method for reporting the quality of a transmission channel between a transmitter and a receiver, said transmitter transmitting frames of data over said transmission channel and said receiver sending back to said transmitter a non-acknowledgement information (NACK) when a received frame of data is detected as erroneous, said receiver sending to said transmitter at scheduled reporting times an information (CQI) representative of the quality of the transmission channel at said reporting times, characterised in that, when said receiver sends a non-acknowledgement information back to said transmitter, it additionally sends an information representative of the quality of the transmission channel at the time a non-acknowledgement information is sent.

2) Method according to claim 1, characterised in that, when said receiver sends a non-acknowledgement information back to said transmitter, it only sends said information representative of the quality of the transmission channel if the quality of the transmission channel has deteriorated by at least a predetermined amount (δ) over the last reported quality of the transmission channel.

3) Method according to claim 1, characterised in that, when a receiver sends a non-acknowledgement information back to said transmitter, said receiver only sends said information representative of the quality of the transmission channel if it has already sent a non-acknowledgement information at a predetermined number of consecutive times.

4) Method according to any preceding claim, characterised in that, when a received frame of data is detected as error-free, the receiver sends back to said transmitter an acknowledgement information (ACK) and, if by the time said acknowledgement is sent, the quality of the transmission channel has improved by at

least a predetermined amount (Δ) over the last reported quality of the transmission channel, it additionally sends an information representative of quality of the information channel at the time the acknowledgement information is sent.

5) Method according to any preceding claim, characterised in that said transmitter is included in a base station and that said receiver is included in a mobile terminal of a telecommunication system provided with an HSDPA access.